## Honey Pot Systems

Normal System

Normal System

Normal System

Honey Pot

Normal System

Normal System

Normal System

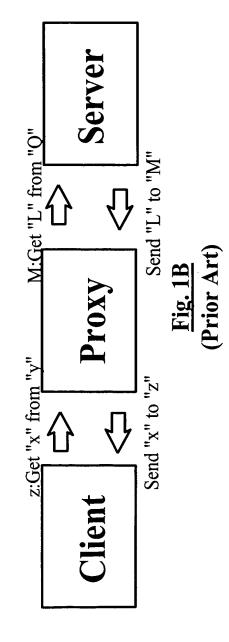
Normal System

Normal System

Fig. 1A (Prior Art)

Proxy servers in firewalls and standard anonymizer services

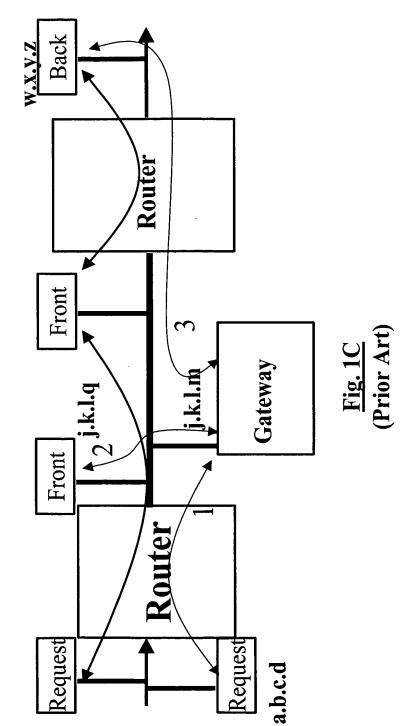
- A surrogate for the real thing
  - Proxy services
- Take requests from clients
  - Translate for servers
- Take responses from servers
- Translate for clients



4.34 4.34 1.34 4.35 1.35 1.35 1.35 4.35 4.35 1.34 4.35 1.34 4.34 4.35 1.37 4.34 4.35 1.37 4.34 4.34 4.34 4.34

Front-end back-end firewall systems

- Front end in the firewall
- Back end in the internal network
- Communications limited (router)
- Addresses are not translated
- intermediate machines use other machines



n ToolKit	Normal System	Normal System	Normal System
Original Deception ToolKit	Normal System	Normal System	Normal System
Origi	Normal System	Normal System	Normal System

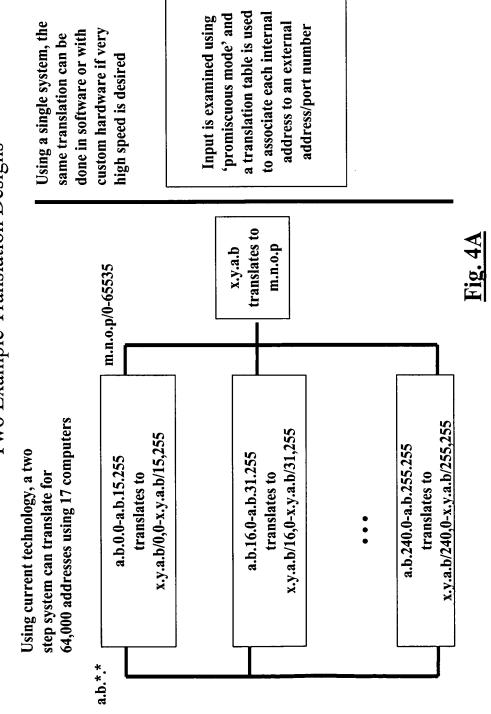
Fig. 2

Multiple Deceptions in One Box

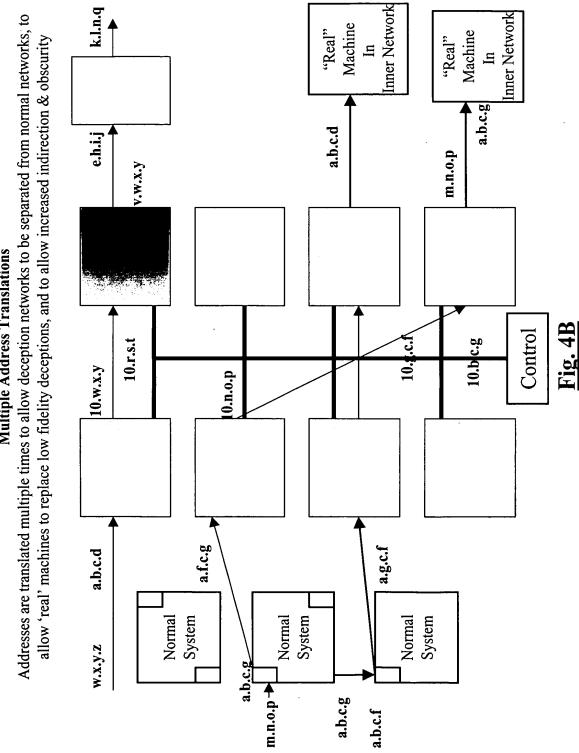
Normal System Normal System Normal System The Reality Vorma System System Vorma Normal System DTK Normal System Normal System System Normal many of which are actually deceptions System System Normal System Normal Normal The observer sees many systems, Q System Normal System Normal System Vorma Ω Normal System System System Normal Normal 

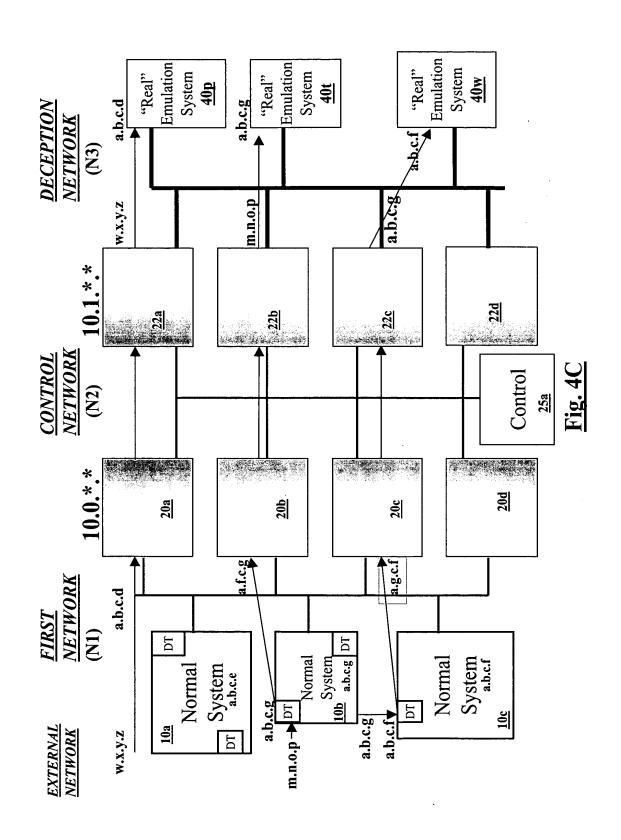
Fig. 3

Two Example Translation Designs

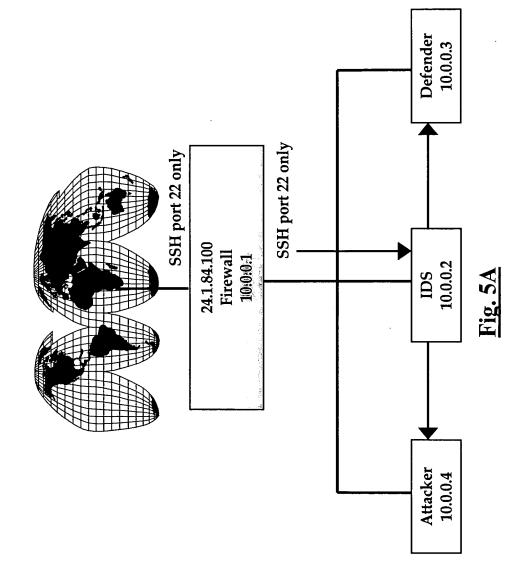


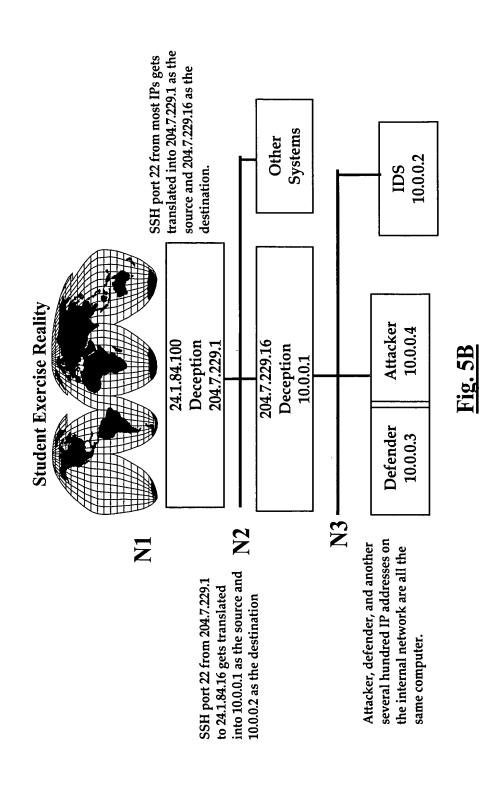
## Multiple Address Translations





What the Student Sees





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## Another Example

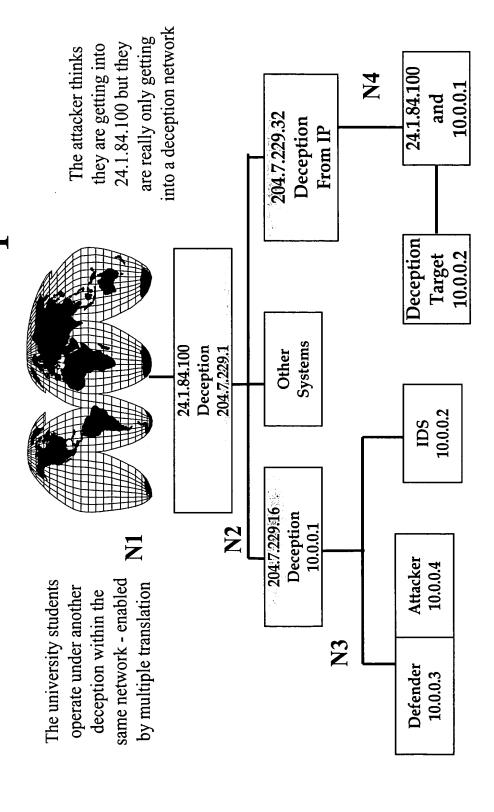
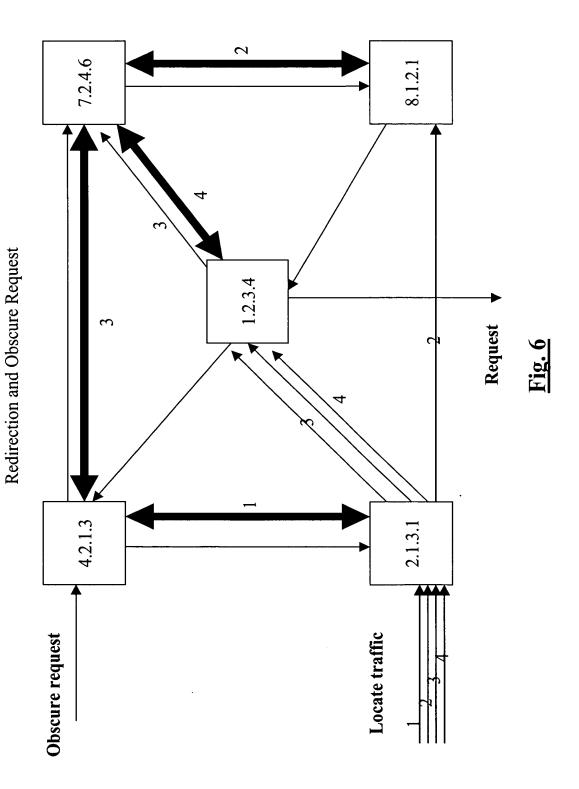
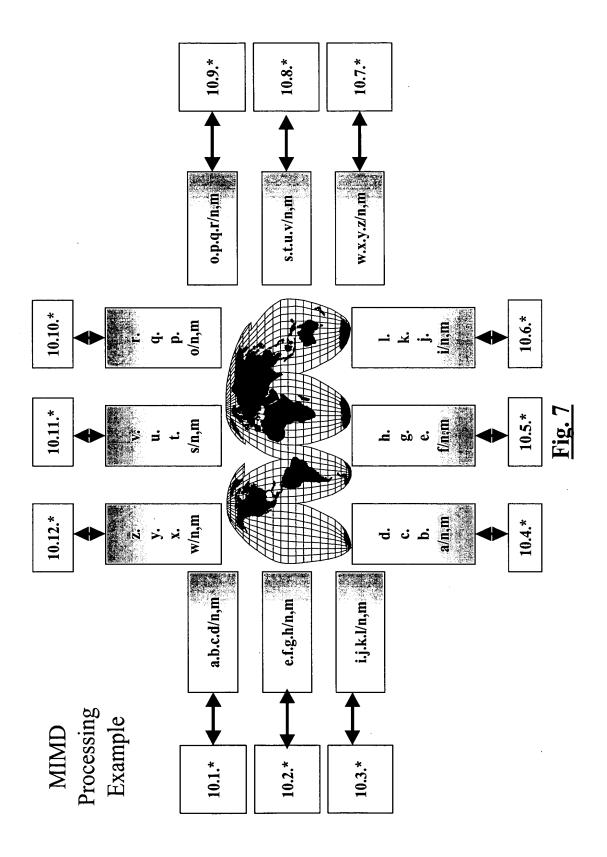


Fig. 5C





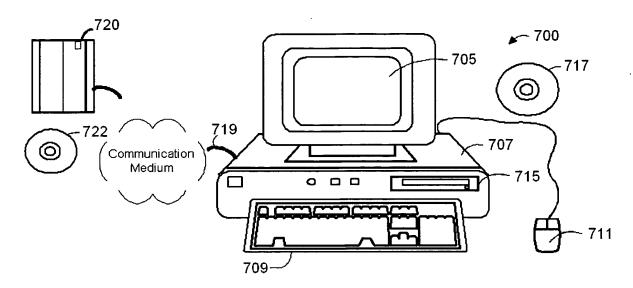


FIG. 8

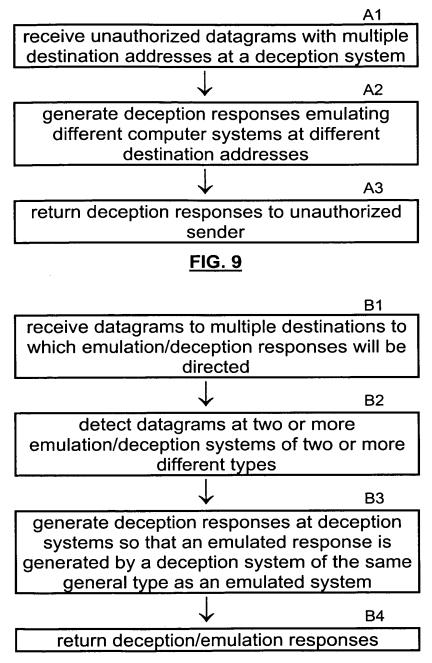


FIG. 10

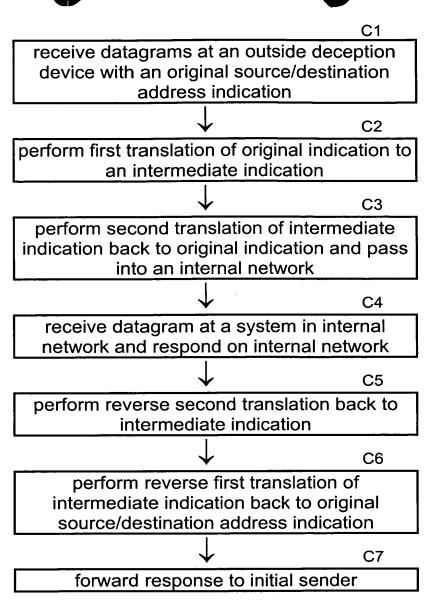


FIG. 11

D1 receive datagrams at an outside deception device with an original source/destination address indication D2 perform first translation of original indication to an intermediate indication and route on an intermediate network to one or more internal subnetworks D3 detect datagram on appropriate intermediate network device and perform second translation of intermediate indication to an internal address indication and pass into an internal network D4 respond to datagram on an internal network D<sub>5</sub> perform reverse second translation back to intermediate indication an place on intermediate network D6 perform reverse first translation of intermediate indication back to original source/destination address indication D7 forward response to initial sender

FIG. 12



E1

receive datagram at first translating node and perform first translation of original source/destination address indication to a second address indication

E2

forward datagram to a second translating node indicated by the second address indication

E3

receive datagram at second translating node and perform second translation of address indication towards a final translating address indication

E4

forward datagram to a final translating node indicated by a final address indication

**E**5

receive datagram at final translating node and translate to actual desired destination address

**E**6

forward datagram to actual desired destination address with obscured source

E7

forward response to initial sender

FIG. 13

at a first MIMD processing module, transmit datagrams to other processing modules using a local MIMD addressing scheme

F2

at a first address translation module, detecting datagrams transmitted using the first local MIMD address scheme that are directed to processing modules not locally present

F3

at the first address translation module, translating detected datagrams to an intermediate network address of a second address translation module

F4

transmitting the translated datagram over an intermediate network to the second address translation module

F5

at the second address translation module, translating datagrams from an intermediate network address to a second MIMD addressing scheme

F6

transmitting the multiply translated datagram to the appropriate MIMD processing module

FIG. 14